

Developing an Effective UX Strategy: The JGI Story

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The JGI redesign story



- Institutional website jgi.doe.gov
- Site design was old and out-of-date
- Difficult to find key content

Redesign Goals:

- 1. New site structure, organization, content flow
- 2. New look & feel
- 3. New Content Management System (WordPress)

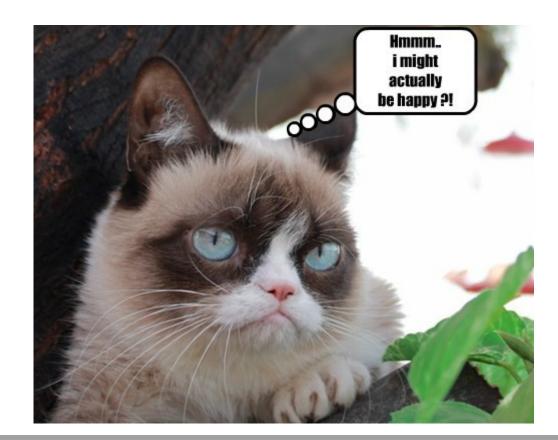
What is UX?



The user experience (UX) is what a person feels while trying to use a website or application.

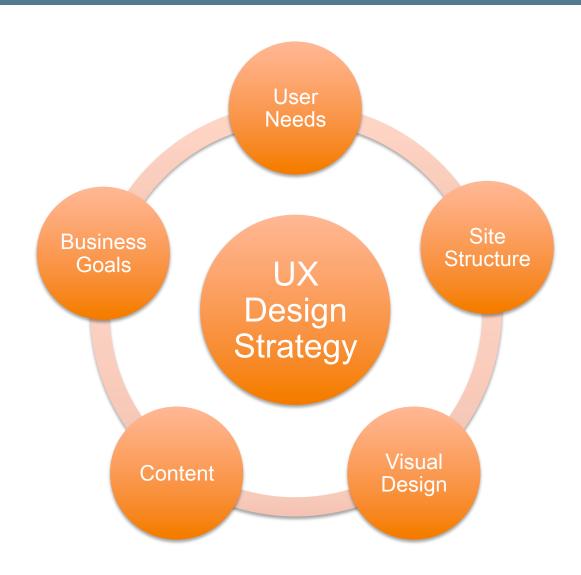
The goal of a UX designer is to make the experience

easy and pleasurable.



Our UX strategy in a nutshell





Our UX Design Process



Transform the user experience through the redesign process

1. Set stakeholder business goals

Gather requirements, conduct stakeholder interviews

2. Identify user needs and priorities

Review quantitative data (analytics), conduct user interviews

3. Plan for site content

Audit old content, migration plan, identify new content, keywords

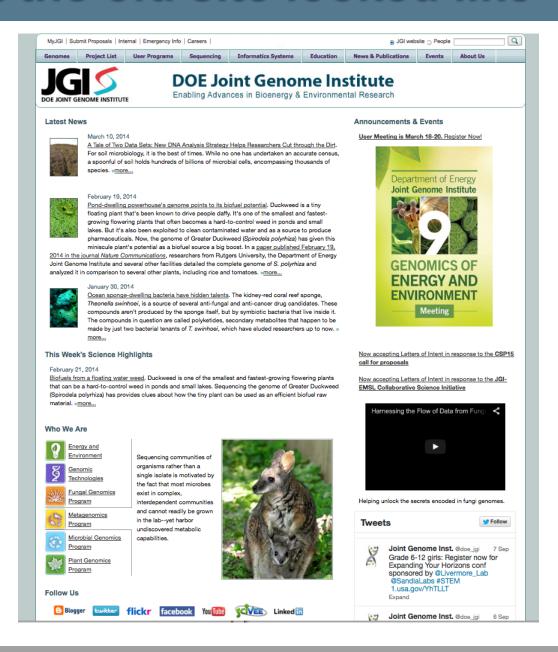
4. Design site structure and layout

Card sorting, sitemap, wireframes, click-thru prototype

5. Apply visual design

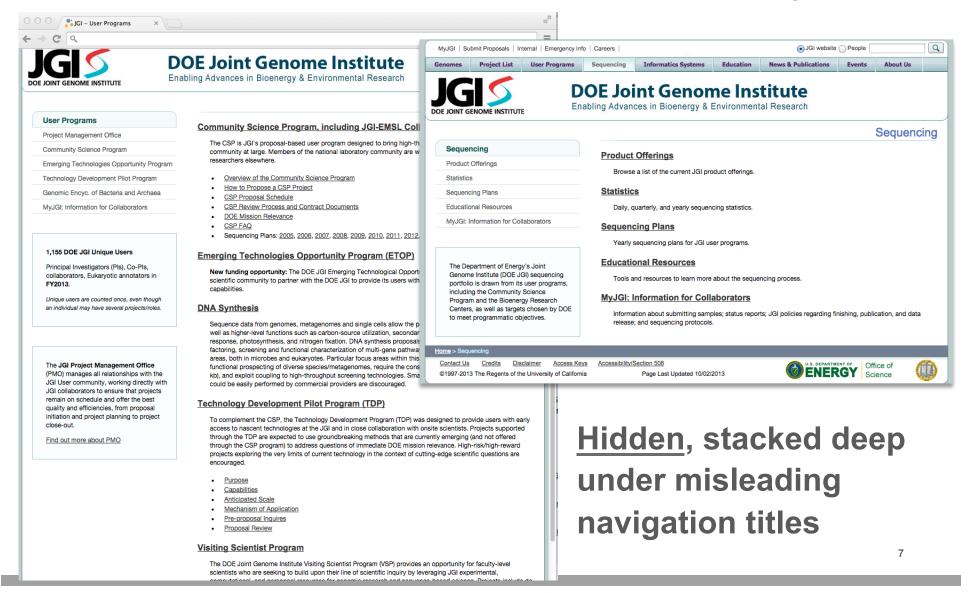
Graphic design mockups, markup for grid/CSS/HTML, code etc.







Critical content areas for the JGI user community:

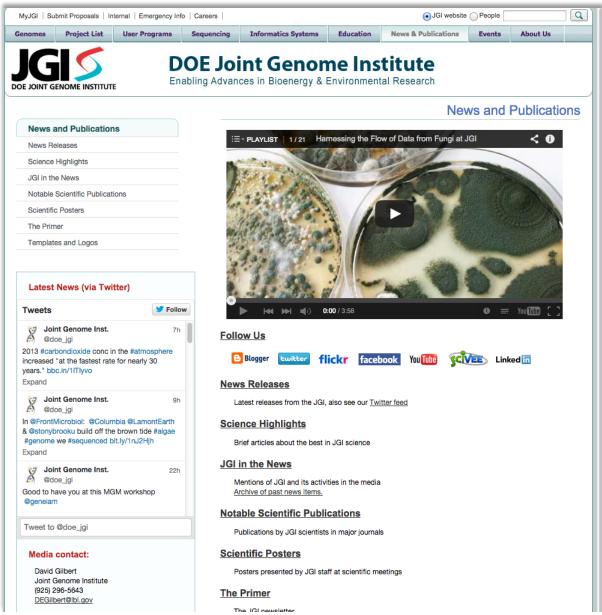




The site's most dynamic content:

News items, science highlights and publications

Hidden under navigation layers and third party blogging website





Navigation menu cluttered with non-essential items and links to 3rd party sites



Plan for the new site structure



A new sitemap:

```
[Search, in header]
       Search results
Our Science (needs fresh content - get from latest Report and Science Highlights)

    DOE Mission Areas

    DOE Bioenergy Research Centers

                     More About Bioenergy Research at the DOE JGI

    Research Highlights

    Poplar genome to large-scale dataset

    Harmful algal blooms

    Yellowstone extremophiles

       Research Highlights (needs fresh content)
              Termite Power: Nature's Bioreactor
              The Poplar Tree: Advancing Alternative Energy Sources (content link)
              Corn: The Leading U.S. Fuel Ethanol Crop (content link)
              Soybeans: Translational Genomics for Clean Energy
              Switchgrass: Power Grass (content link)
              White Rot: Nature's Wood Pulp Processor (content link)
              Brachypodium: Growing Grass for Energy (content link)
              The Benefits of Biomass

    * The Ethanol Producers [The Fuel Producers]

              The Fuel Producers
       Science programs
              Microbial genomics
                     Why Microbes? change page name to: Mission
                     Projects
                            Genomic Encyclopedia of Bacteria and Archaea (GEBA)
```

Why GEBA (link to "Interpret a Genome")

Microbial Earth Project (MEP)

9/10/2014

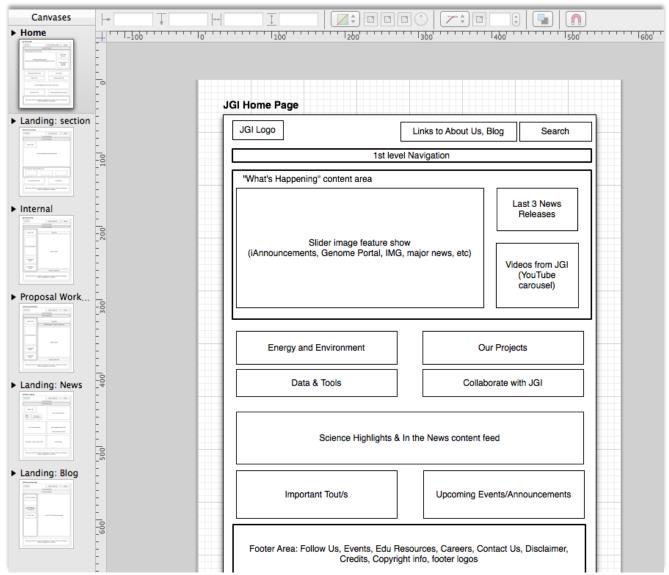
Pilot project

GEBA-RNB GEBA-Cyano

Plan for the new site structure



Wireframes for the new layout:



Introducing the new website!





ABOUT US PHONE BOOK CONTACT US Search JGI websites ...

SEARCH

Our Science

Our Projects

Data & Tools

Collaborate with JGI

News & Publications

WHAT'S HAPPENING



NEWS RELEASE: IDing Livestock Gut Microbes Contributing to Greenhouse Gas Emissions

Latest News

AUGUST 24, 2014

Signatures of Selection Inscribed on Poplar Genomes

AUGUST 7, 2014

DOE JGI, EMSL Announce 2015 Collaborative Science Projects

ALL NEWS RELEASES

Announcements

Save the Date for the 10th Annual Genomics of Energy and Environment Meeting

Small-scale <u>Microbial/Metagenome Proposals</u> due Nov 20, 2014

Read about our <u>Data Management Policy</u>, <u>Practices & Resources</u>



How we're contributing to bioenergy research.

LEARN MORE



Everything you need to know about getting a project started.

LEAR

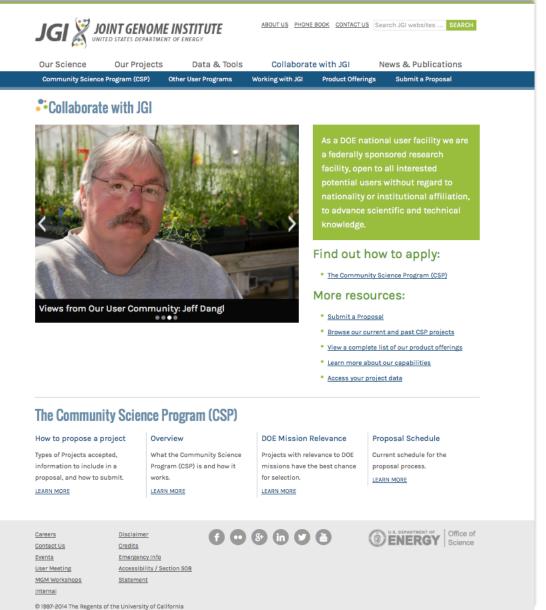
Improved content organization!



Critical new pathways for JGI user community

Collaborate
with JGI
landing for
new users

Our Projects
landing for
existing users

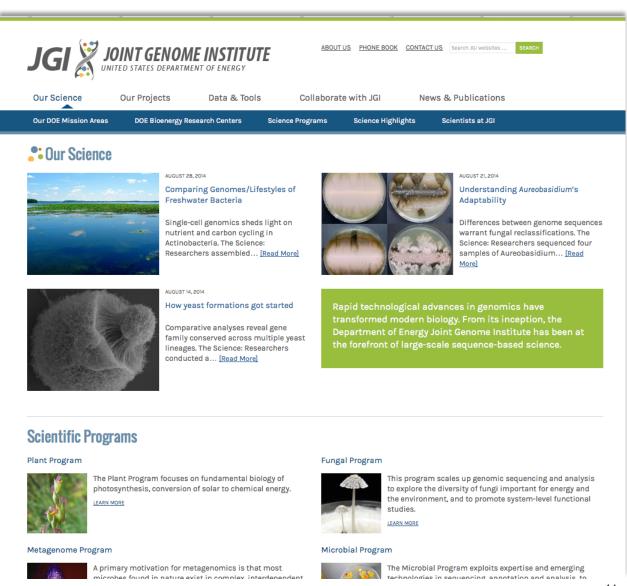


New site sections!



A new site landing Our Science

Highlights the critical JGI message

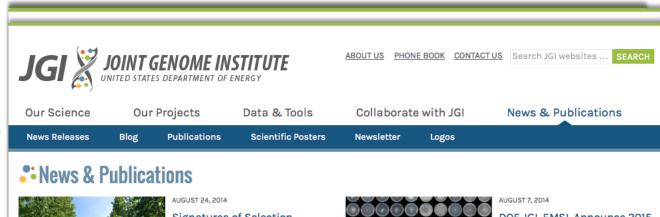


Improved content flow!



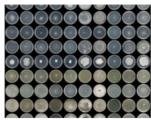
More visibility for regular content features

Topics are repeated in multiple areas



Signatures of Selection Inscribed on Poplar Genomes

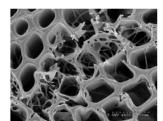
Genome-Wide Study Shows
Evidence of Genetic Selection One
aspect of the climate change
models researchers... [Read More]



DOE JGI, EMSL Announce 2015 Collaborative Science Projects

Combining complementary resources for greater scientific understanding. The U.S.
Department of Energy Joint Genome Institute (DOE JGI)...

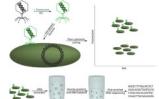
[Read More]



JUNE 23, 201

Treading into a Gray Area Along the Spectrum of Wood Decay Fungi

One of the most basic rules for playing the game "Twenty Questions" is that all... [Read More]



JULY 13, 2014

Dyeing to Learn More About Marine Viruses

Tagging strategy allows for population surveys The sheer volume of cyanobacteria in the oceans makes... [Read More]

Upcoming

Save the Date for the <u>10th Annual Genomics of Energy and Environment Meeting</u>

Small-scale Microhial/Metagenome Proposals due Nov 20, 2014

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DOE Joint Genome Institute

More UX problems to solve...



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